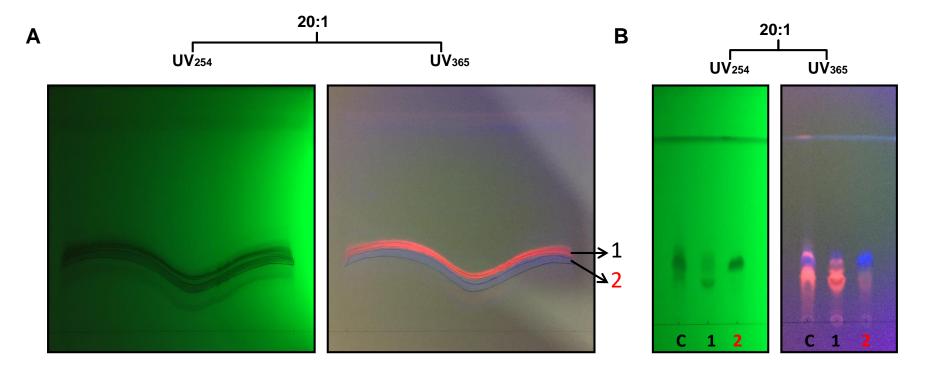
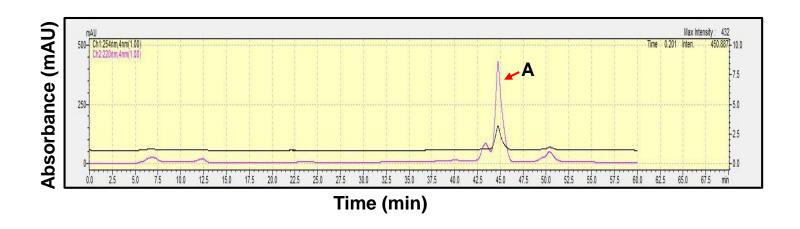


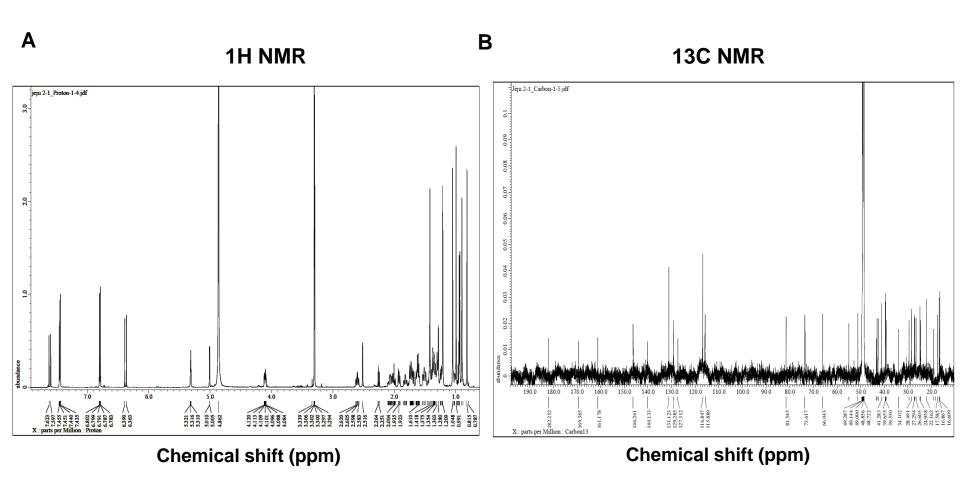
Supplementary Figure S1. Purification procedure of the inhibitor of mammosphere formation derived from aronia extracts using SiO₂ gel chromatography. (A) The sample was isolated using SiO₂ gel chromatography with a solvent mixture [CHCl_{3:} MeOH (20:1)]. (B) TLC plate analysis of a partially purified sample. Active fraction; #6.



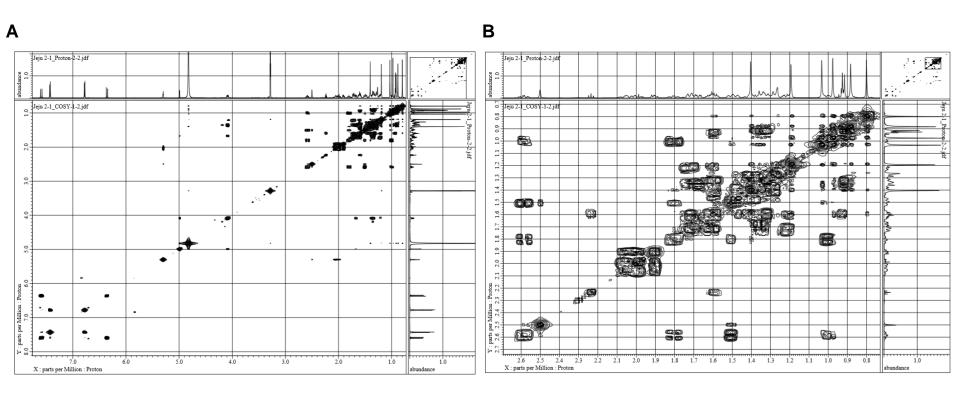
Supplementary Figure S2. Purification procedure of the inhibitor of mammosphere formation from aronia extracts using preparative thin layer chromatography with CHCl₃:MeOH (20:1). (A) Preparatory TLC chromatography containing fractions 1 and 2. (B) TLC analysis of the prepared TLC bands after the samples were scraped and purified (fractions 1 and 2). Active fraction; 2.



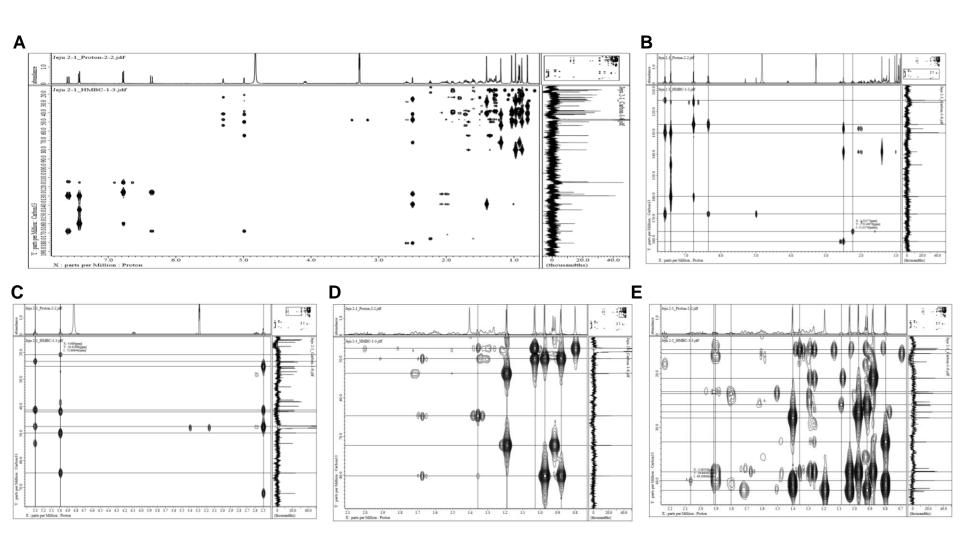
Supplementary Figure S3. Assessment of the major fractions using HPLC at two wavelengths. Samples were collected based on the 254 and 220 nm wavelengths. Active fraction; A.



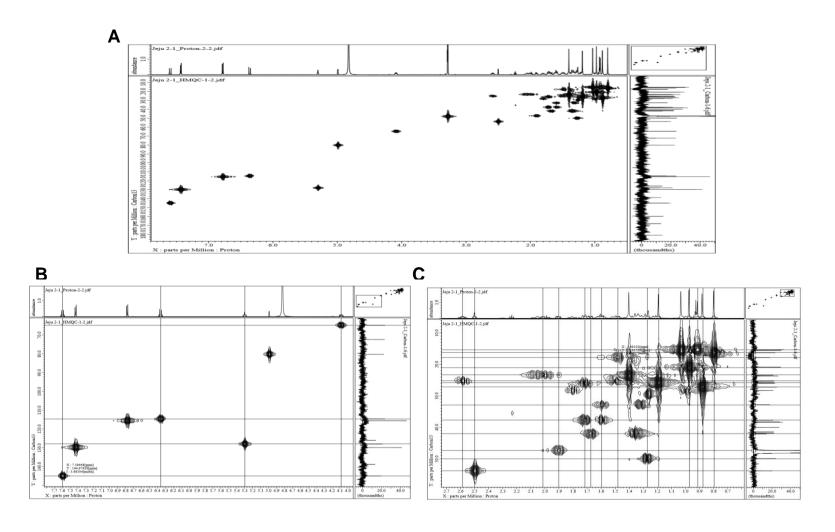
Supplementary Figure S4. 1H NMR and 13C NMR spectra of purified sample, 3-O-trans-p-Coumaroyltormentic acid.



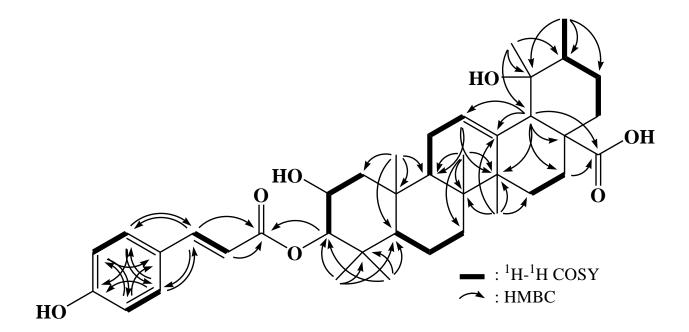
Supplementary Figure S5. COSY 2D-NMR spectra of the purified sample, 3-*O-trans-p*-coumaroyltormentic acid.



Supplementary Figure S6. HMBC 2D-NMR spectra of the purified sample, 3-*O-trans-p*-coumaroyltormentic acid.

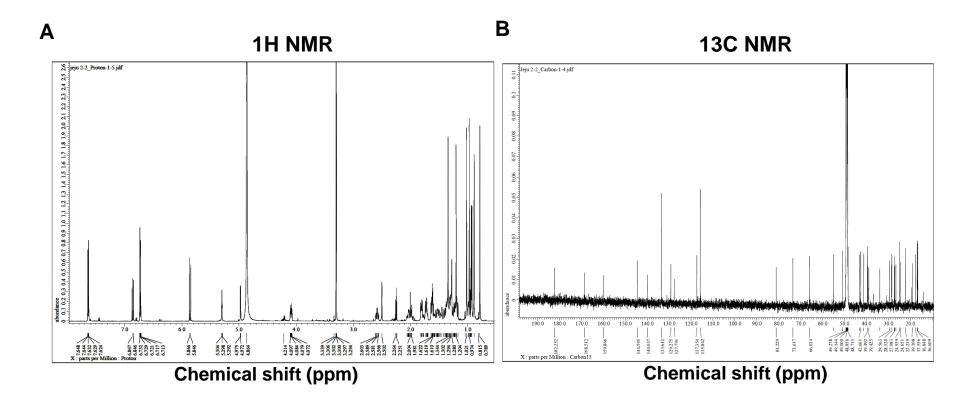


Supplementary Figure S7. HMQC 2D-NMR spectra of the purified sample, 3-*O-trans-p*-coumaroyltormentic acid.

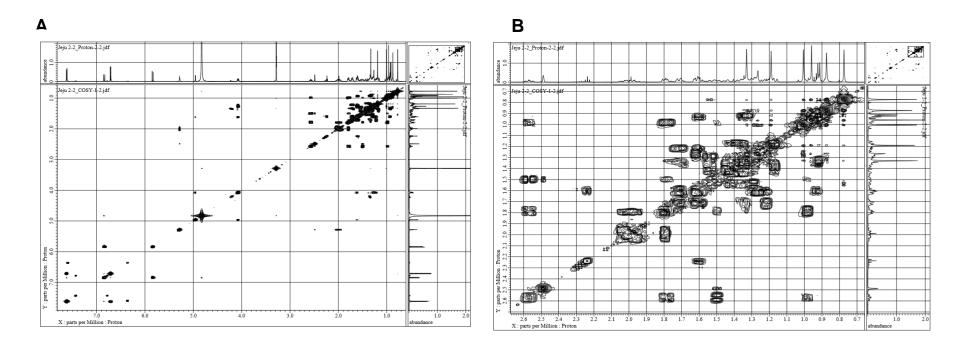


3-*O-trans-p*-Coumaroyltormentic acid: C₃₉H₅₄O₇, molecular weight; 634

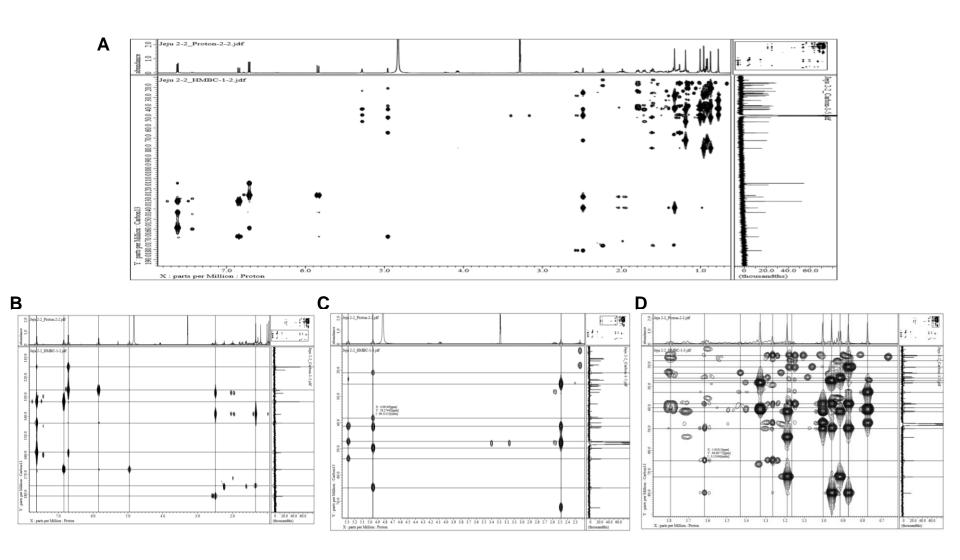
Supplementary Figure S8. Molecular structure of the purified sample, 3-*O-trans-p*-coumaroyltormentic acid.



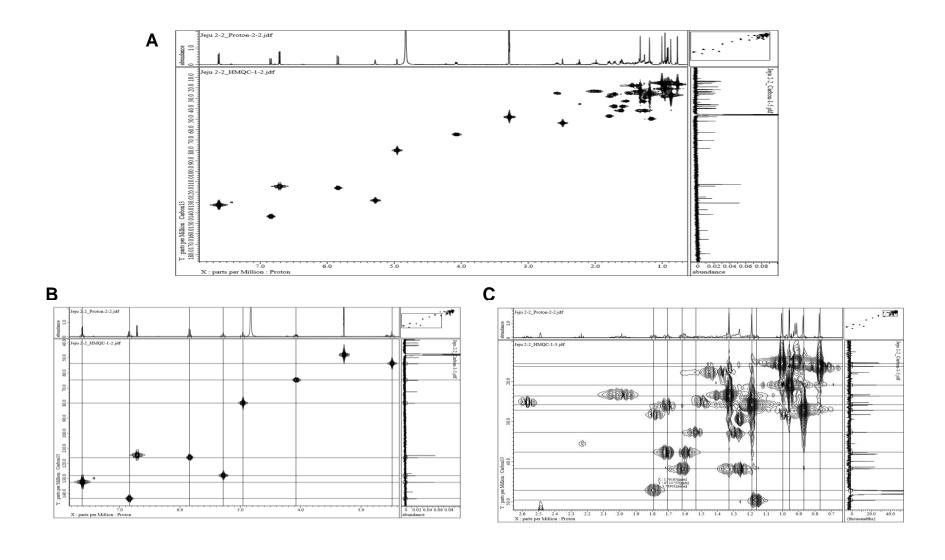
Supplementary Figure S9. ¹H NMR and ¹³C NMR spectra of the purified sample, 3-*O-cis-p*-coumaroyltormentic acid.



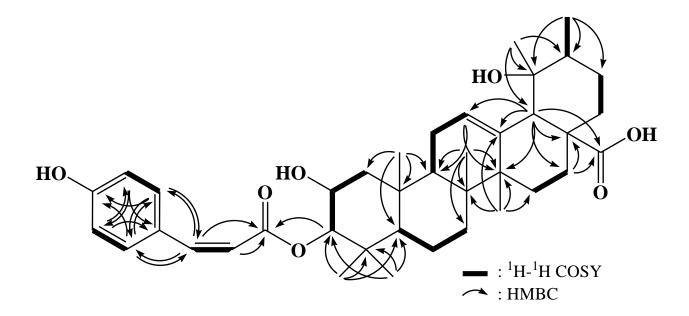
Supplementary Figure \$10. COSY 2D-NMR spectra of the purified sample, 3-*O-cis-p*-coumaroyltormentic acid.



Supplementary Figure S11. HMBC 2D-NMR spectra of the purified sample, 3-*O-cis-p*-coumaroyltormentic acid.



Supplementary Figure S12. HMQC 2D-NMR spectra of the purified sample, 3-*O-cis-p*-coumaroyltormentic acid.



3-O-cis-p-Coumaroyltormentic acid: $C_{39}H_{54}O_7$, molecular weight; 634

Supplementary Figure S13. Molecular structure of the purified sample, 3-*O-cis-p*-coumaroyltormentic acid.

IP: c-Myc (Mouse) Control **Trans**

IB: Anti-ubiquitin

IB: Anti-Myc (Rabbit)

Supplementary Figure S14. 3-O-trans-p-Coumaroyltormentic acid (Trans) did not promote ubiquitin (Ub)-mediated proteasome degradation of c-Myc in MDA-MB-231 cells. The cells were treated with 20 µM Trans for 24 hours and then exposed to MG-132 before lysis for immunoprecipitation (IP). Cells were lysed for Western blot (WB) analysis. Control and Trans.